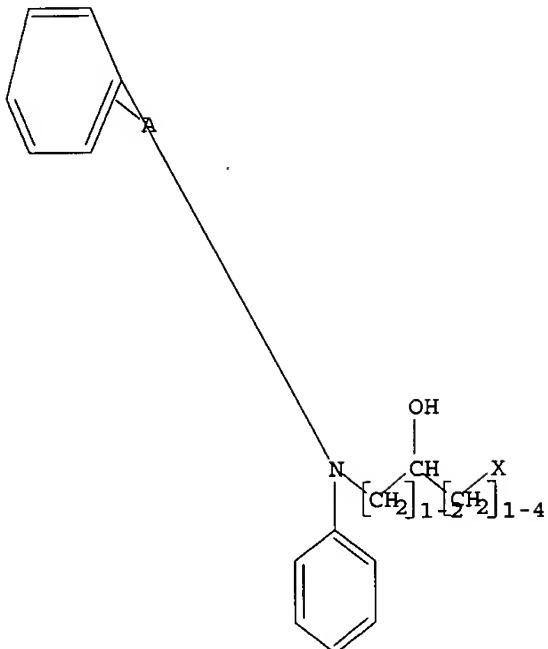


09/288,556

L12

STR



G1 H, Me, Et, n-Pr, i-Pr, n-Bu, i-Bu, s-Bu, t-Bu

Structure attributes must be viewed using STN Express query preparation.

```
=> s l12 sss full
FULL SEARCH INITIATED 13:37:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 461 TO ITERATE
```

```
100.0% PROCESSED      461 ITERATIONS          2 ANSWERS
SEARCH TIME: 00.00.01
```

L13 2 SEA SSS FUL L12

=> file caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	151.35	813.27
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-8.46

```
FILE 'CAPLUS' ENTERED AT 13:38:04 ON 05 SEP 2003
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09/288,556

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FILE COVERS 1907 - 5 Sep 2003 VOL 139 ISS 11
FILE LAST UPDATED: 4 Sep 2003 (20030904/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 113
L14 2 L13

=> d 1-2 113 ibib abs hitstr
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

=> file caplus			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
FULL ESTIMATED COST	ENTRY	SESSION	
	0.42	813.69	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
CA SUBSCRIBER PRICE	ENTRY	SESSION	
	0.00	-8.46	

FILE 'CAPLUS' ENTERED AT 13:38:31 ON 05 SEP 2003
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FILE COVERS 1907 - 5 Sep 2003 VOL 139 ISS 11
FILE LAST UPDATED: 4 Sep 2003 (20030904/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 113
L15 2 L13

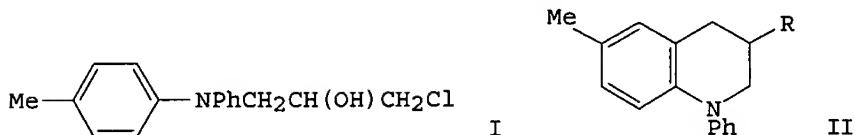
=> d 114 1-2 ibib abs hitstr

L14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1976:446348 CAPLUS
DOCUMENT NUMBER: 85:46348
TITLE: 3-Chloro-2-hydroxypropyl derivatives of aromatic amines and their reaction products. XVII.

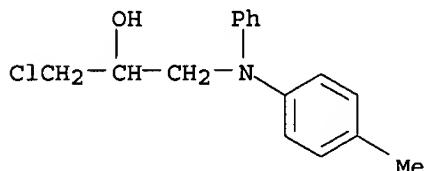
09/288,556

AUTHOR(S): 4-Methyldiphenylamine
Kutkevicius, S.; Samarskis, E.
CORPORATE SOURCE: Kaunas. Politekh. Inst. im. Smeckusa, Kaunas, USSR
SOURCE: Lietuvos TSR Aukstuju Mokyklu Mokslo Darbai, Chemija
ir Chemine Technologija (1975), 17, 151-4
CODEN: LAMCAJ; ISSN: 0459-3391

DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI



AB Addn. of epichlorohydrin to p-MeC₆H₄NHPh in AcOH 6 days at 70.degree. gave 80% I. A similar reaction 5 days at 150-5.degree. gave 75.4% II (R = OH) which was dehydrated by polyphosphoric acid to give 27% II (R = H). Acylation of II (R = OH) gave 50-3% II (R = AcO, BzO, p-NO₂C₆H₄CO₂).
IT 59836-08-7P
RN 59836-08-7 CAPLUS
CN 2-Propanol, 1-chloro-3-[(4-methylphenyl)phenylamino]- (9CI) (CA INDEX NAME)



L14 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1969:37343 CAPLUS
DOCUMENT NUMBER: 70:37343
TITLE: N-(.gamma.-Chloro-.beta.-hydroxylpropyl)arylamines and their reaction products. VI. N-Mono- and N,N-bis(.beta.,.gamma.-epoxypropyl)amines
AUTHOR(S): Kutkevicius, S.; Rutkauskas, S.
CORPORATE SOURCE: Kaunas. Politekh. Inst., Kaunas, USSR
SOURCE: Lietuvos TSR Aukstuju Mokyklu Mokslo Darbai, Chemija
ir Chemine Technologija (1967), 8, 99-104
CODEN: LAMCAJ; ISSN: 0459-3391
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Powd. NaOH (16 g.) was shaken with 26 g. Ph₂NCH₂CH(OH)CH₂Cl (I) in 50 cc. HCONMe₂ 10-20 min. with cooling, to give 82% N-(.beta.,.gamma.-epoxypropyl)diphenylamine (II), b₁-2 158-9.degree.. Similarly, 2-(.beta.,.gamma.-epoxypropyl)-2'-aminodiphenylamine (III), and N,N'-diphenyl-N,N'-bis(.beta.,.gamma.-epoxypropyl)-p-phenylenediamine (IV) was obtained. I (0.2 mole) in 0.6-1 mole HCONMe₂ was shaken with 0.8-1 mole powd. Na 10-15 min., the mixt. dild. with 20-30 cc. H₂O, heated at

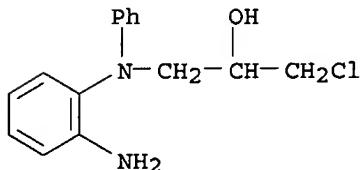
40-60.degree. 2-3 hrs. with stirring to give 73% Ph₂NCH₂CH(OH)CH₂NMe₂, m. 48-9.degree. (petroleum ether or alc.). Similarly the following ArNHCH₂CH(OH)CH₂NMe₂ were obtained (Ar, % yield and m.p. given): Ph, 62, 81-2.degree.; p-MeC₆H₄, 81, 71-2.degree.; 1-naphthyl, -, 81-2.degree.; o-PhNHC₆H₄, 67, 102-3.degree.. Similarly prep'd. was N,N'-diphenyl-N,N'-bis(.gamma.-dimethylamino-.beta.-hydroxypropyl)-p-phenylenediamine, m. 129-31.degree.. Epichlorohydrin (V) 37 g. and 36.8 g. 2-aminodiphenylamine was kept 45 hrs., the mixt. was dissolved in amyl alc. and satd. with HCl to give 27.6 g. o-H₂NC₆H₄NPhCH₂CH(OH)CH₂Cl.cntdot. HCl (VI), m. 135-6.degree. (amyl alc.). VI (30 g.), 12 g. powd. NaOH, and 0.6 l. Et₂O was shaken and refluxed 3 hrs. to give 17.8 g. III, m. 79-80.degree. (Et₂O). p-PhNHC₆H₄NHPh (13 g.), 18.5 g. V, and 6 g. AcOH was heated at 60-5.degree. 48 hrs., the mixt. was shaken with 250 cc. H₂O and extd. with Et₂O. Powd. NaOH (20 g.) was added to the Et₂O layer and the mixt. was refluxed 2 hrs. to give 7.2 g. IV, m. 70-1.degree. (Et₂O). Similarly, 22.1 g. II, b₃-4 182-4.5.degree., was obtained from 37 g. V after 55 hrs. V (37 g.), 36.6 g. 4-MeC₆H₄NHPh, and 12 g. AcOH was heated at 60-3.degree. 50 hrs., the mixt. treated with H₂O and extd. with Et₂O, and the Et₂O was removed. The residue was dissolved in 180 cc. MeOH, 9.8 g. NaCN was added and the mixt. was heated 1 hr. at 60-4.degree. to give 36% p-MeC₆H₄NPhCH₂(OH)CH₂R (VII, R = CN) (VIII), m. 70-1.degree. (MeOH). Similarly, 26% p-[NCCH₂CH(OH)CH₂NPh]2C₆H₄, m. 163-4.degree. (Et₂O), was obtained. VIII (1.3 g.), 7 cc. MeOH, 2 cc. H₂O, 0.4 g. NaOH, and 5 cc. 10% H₂O₂ was heated at 47-50.degree. 20 min. to give 42% VII (R = CONH₂), m. 134-5.degree. (MeOH). VIII (2.6 g.), 8 cc. alc., 1.6 g. NaOH, and 5 cc. H₂O was heated at 100-5.degree. 4 hrs. to give 53% VII (R = CO₂H), m. 79-80.degree. (alc.).

IT 21471-79-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 21471-79-4 CAPLUS

CN 2-Propanol, 1-[N-(o-aminophenyl)anilino]-3-chloro-, monohydrochloride
(8CI) (CA INDEX NAME)



● HCl

=>